

V&V Reference Report

L2 ASCDS Version : 7.6.8.1

Observation 2825 - L2 Version 001
Chandra X-Ray Center

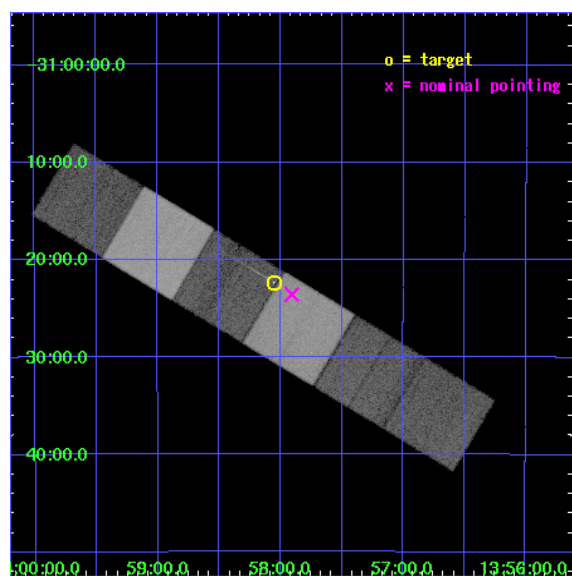
L2 Processing Date : Sep 9 2006

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1 Front

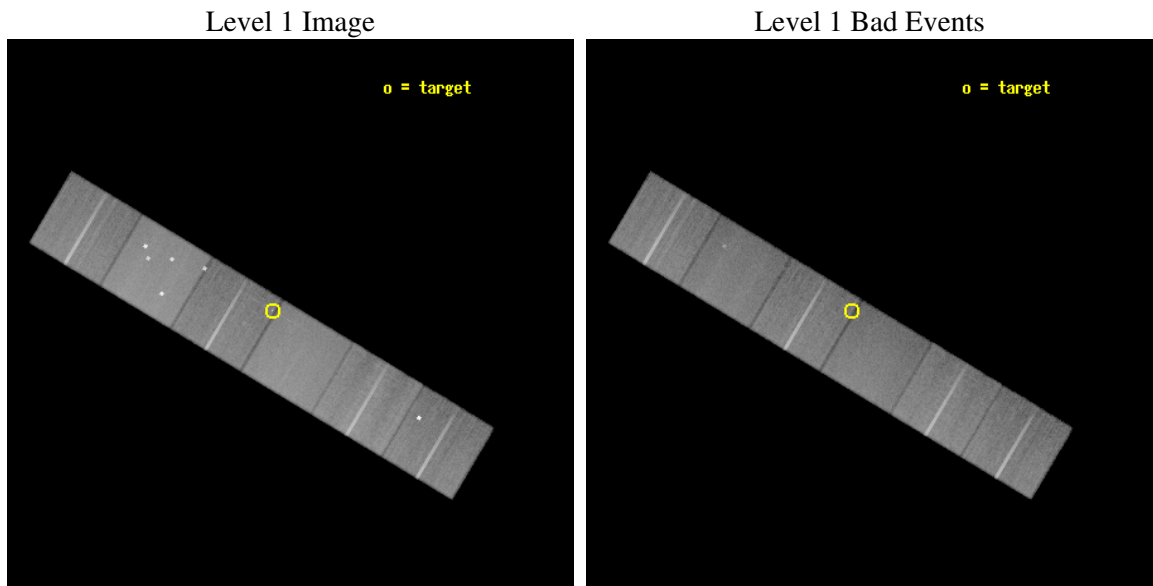
seq_num	500275
obs_id	2825
title	SOFT X-RAY SPECTROSCOPY OF A GAMMA-RAY BURST AFTERGLOW WITH CHANDRA
observer	Prof. FREDERIK PAERELS
object	GRB 020405
dtcycle	0
cycle	P
ra_targ	209.512917
dec_targ	-31.372778
ra_nom	209.47689629621
dec_nom	-31.393047314168
roll_nom	30.907783091116
revision	2
ontime	51206.358828962
livetime	50557.953080702
ontime4	51206.358828992
ontime5	51209.599809229
ontime6	51206.358828962
ontime7	51209.599809229
ontime8	51209.599809229
ontime9	51206.358789116
l2events	487929



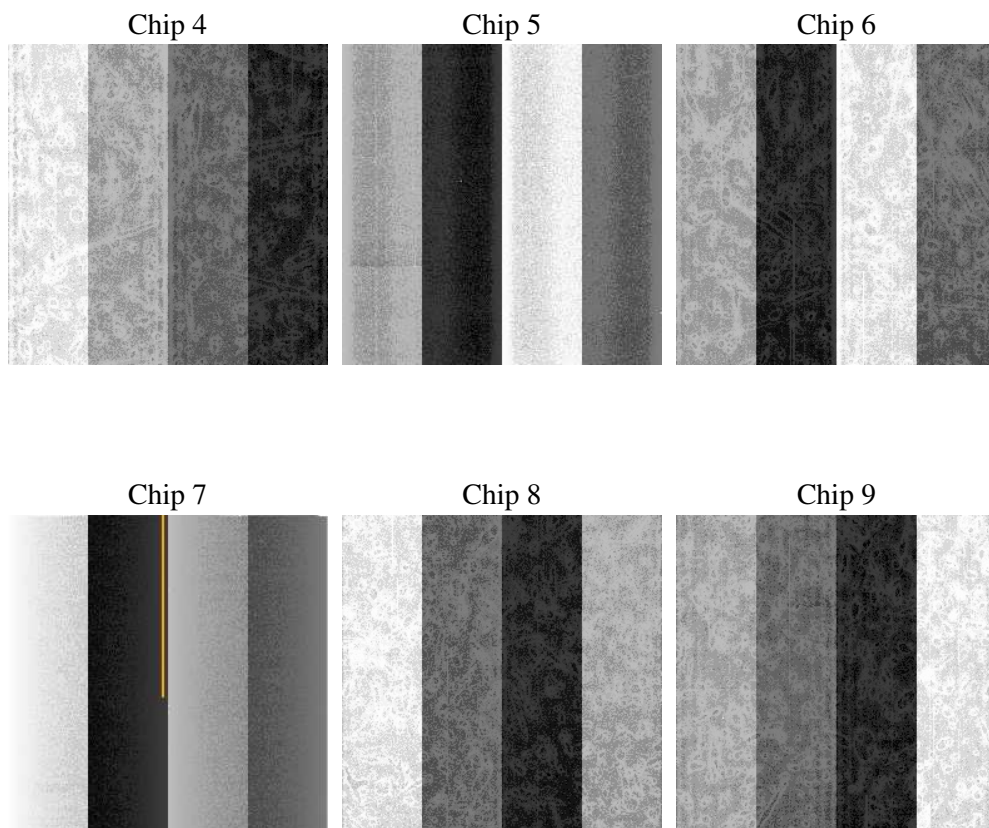
2 OBI

2.1 OBI

2.1.1 Images



2.1.2 Bias



2.1.3 Parameters

obi_num	0
ascdsver	7.6.8.1
caldsver	3.2.3
date	2006-09-09T17:11:40
revision	2

sched_exp_time	51249.052000
ontime	51211.144209385
ontime4	51211.144209415
ontime5	51214.385189652
ontime6	51211.144209385
ontime7	51214.385189652
ontime8	51214.385189652
ontime9	51211.144169539
l1events	2389896

2.1.4 Events

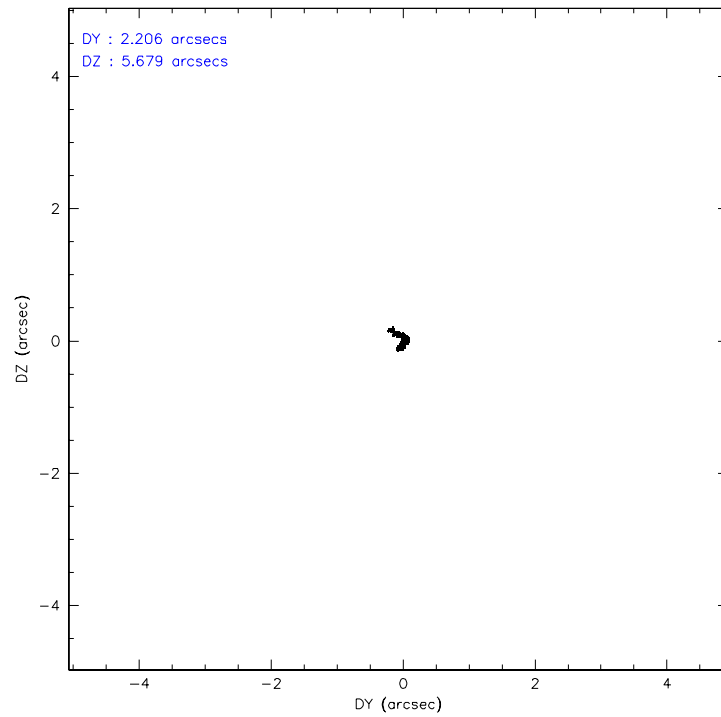
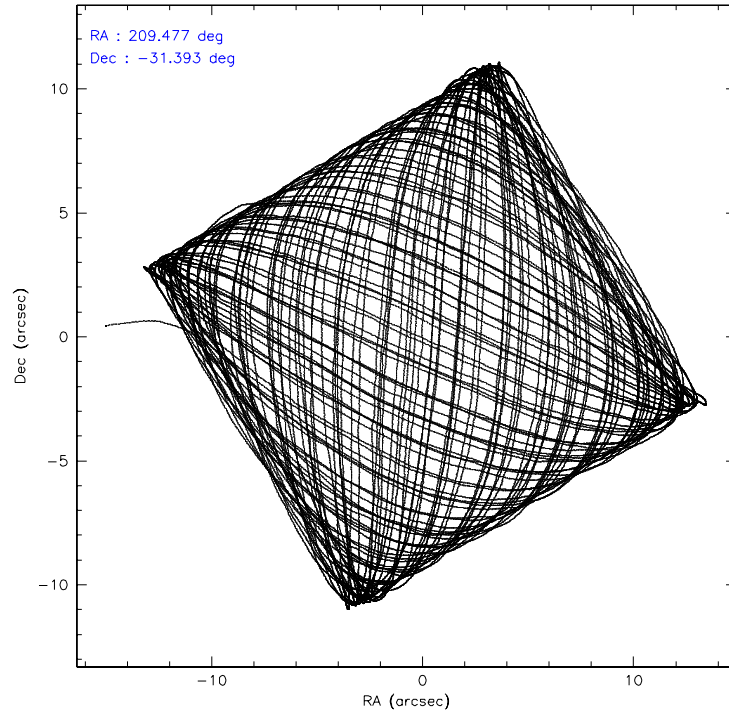
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
level 1 events	356976	498538	339257	430582	423278	341265
rejected events	318139	266396	299760	267771	339462	289518
rejected %	89%	53%	88%	62%	80%	84%

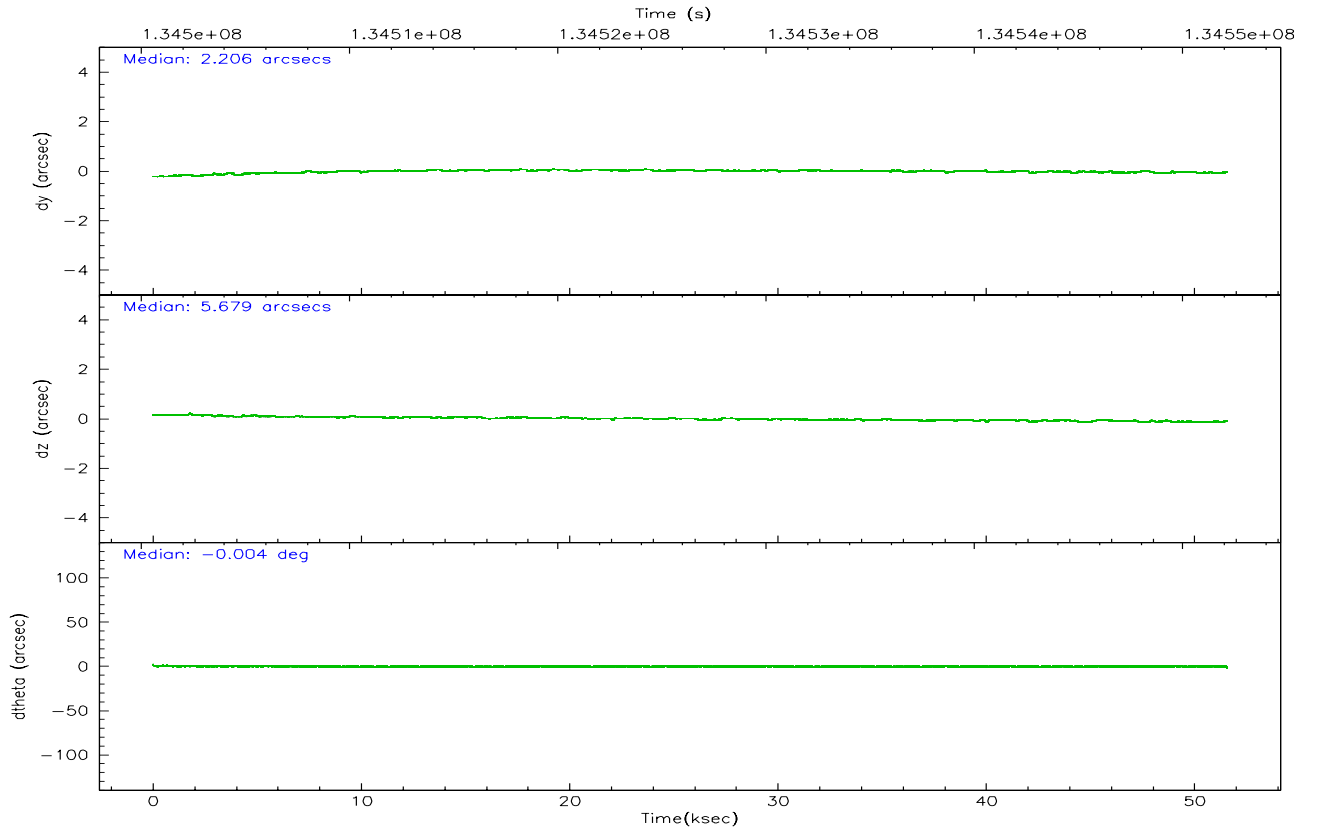
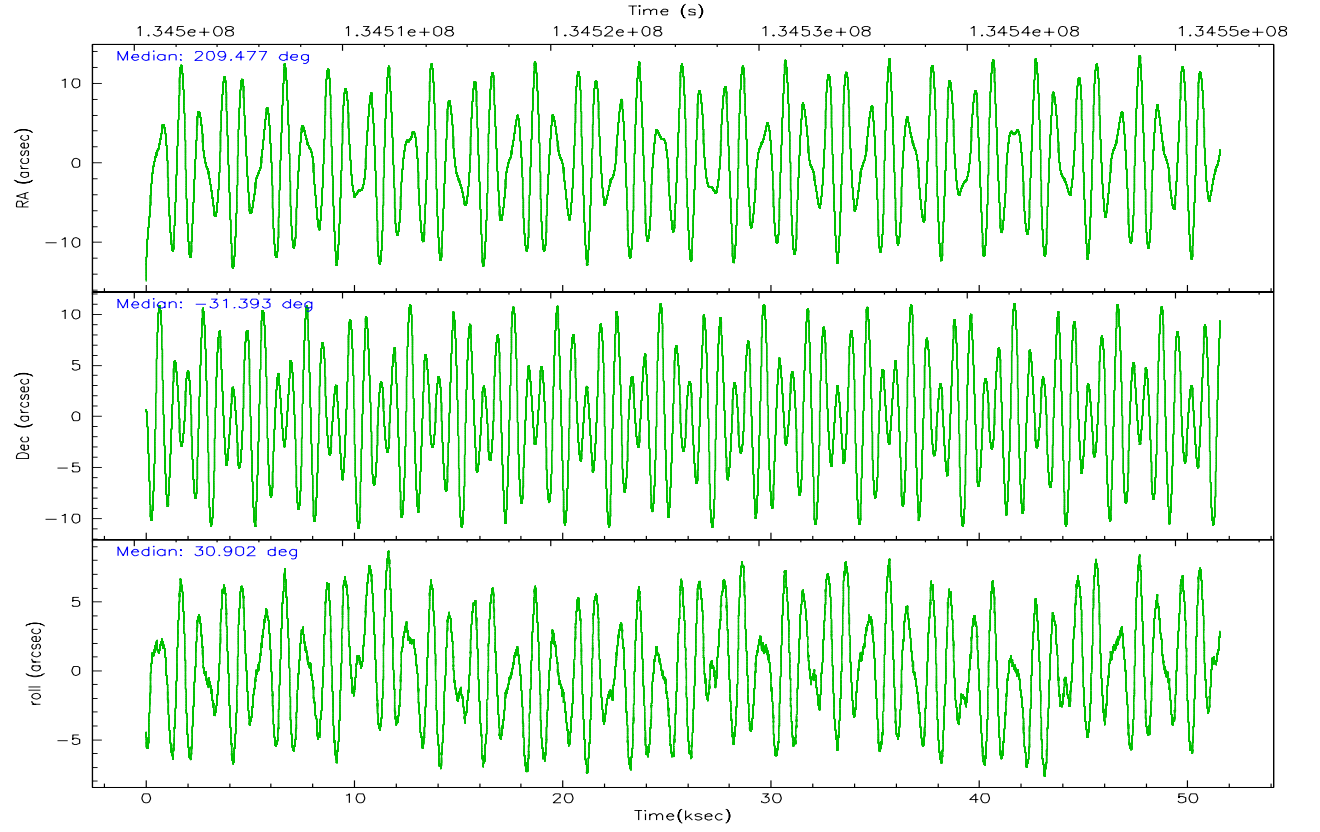
	ccd 4	ccd 5	ccd 6	ccd 7	ccd 8	ccd 9
grade 0 events	15021	38466	16113	9252	25947	27625
	4%	7%	4%	2%	6%	8%
grade 1 events	164	1295	184	258	221	156
	0%	0%	0%	0%	0%	0%
grade 2 events	9654	66636	7898	40182	18308	8676
	2%	13%	2%	9%	4%	2%
grade 3 events	3610	4737	3866	8386	8958	3878
	1%	0%	1%	1%	2%	1%
grade 4 events	3518	4560	3785	8151	8554	3693
	0%	0%	1%	1%	2%	1%
grade 5 events	12046	23207	14499	28500	18766	14570
	3%	4%	4%	6%	4%	4%
grade 6 events	7037	117759	7839	96849	22056	7878
	1%	23%	2%	22%	5%	2%
grade 7 events	305926	241878	285073	239004	320468	274789
	85%	48%	84%	55%	75%	80%

2.2 Compared Parameters

Parameter	Planned	Actual	Parameter	Planned	Actual
Instrument	ACIS	ACIS	Obspar format version number	6	6
Detector	ACIS-456789	ACIS-456789	Obspar file type	PREDICTED	ACTUAL
Grating	LETG	LETG	Obspar update status	NONE	UPDATED
Data mode	FAINT	FAINT	On-chip summing requested	N	N
Observation mode	POINTING	POINTING	Subarray requested	NONE	NONE
Pointing RA	209.461730	209.4768962962089	Alternating exposures requested	N	N
Pointing Dec	-31.417003	-31.39304731416818	Primary exposure time	0.000000	3.2
Pointing Roll	30.743248	30.90778309111609			
SIM focus pos (mm)	-0.684267	-0.6828225247311905			
SIM defocus (mm)	0	0.001444936568705701			
SIM translation stage pos (mm)	-182.132523	-182.1370004450064			
SIM translation stage offset (mm)	-8	-7.995522138001405			
Observation start time	134500881.184000	134499860.12077			
Observation start date	2002-04-06T17:20:17	2002-04-06T17:04:20			
Observation end time	134552130.184000	134552444.67291			
Observation end date	2002-04-07T07:34:26	2002-04-07T07:40:44			
Read mode	TIMED	TIMED			

2.3 Aspect



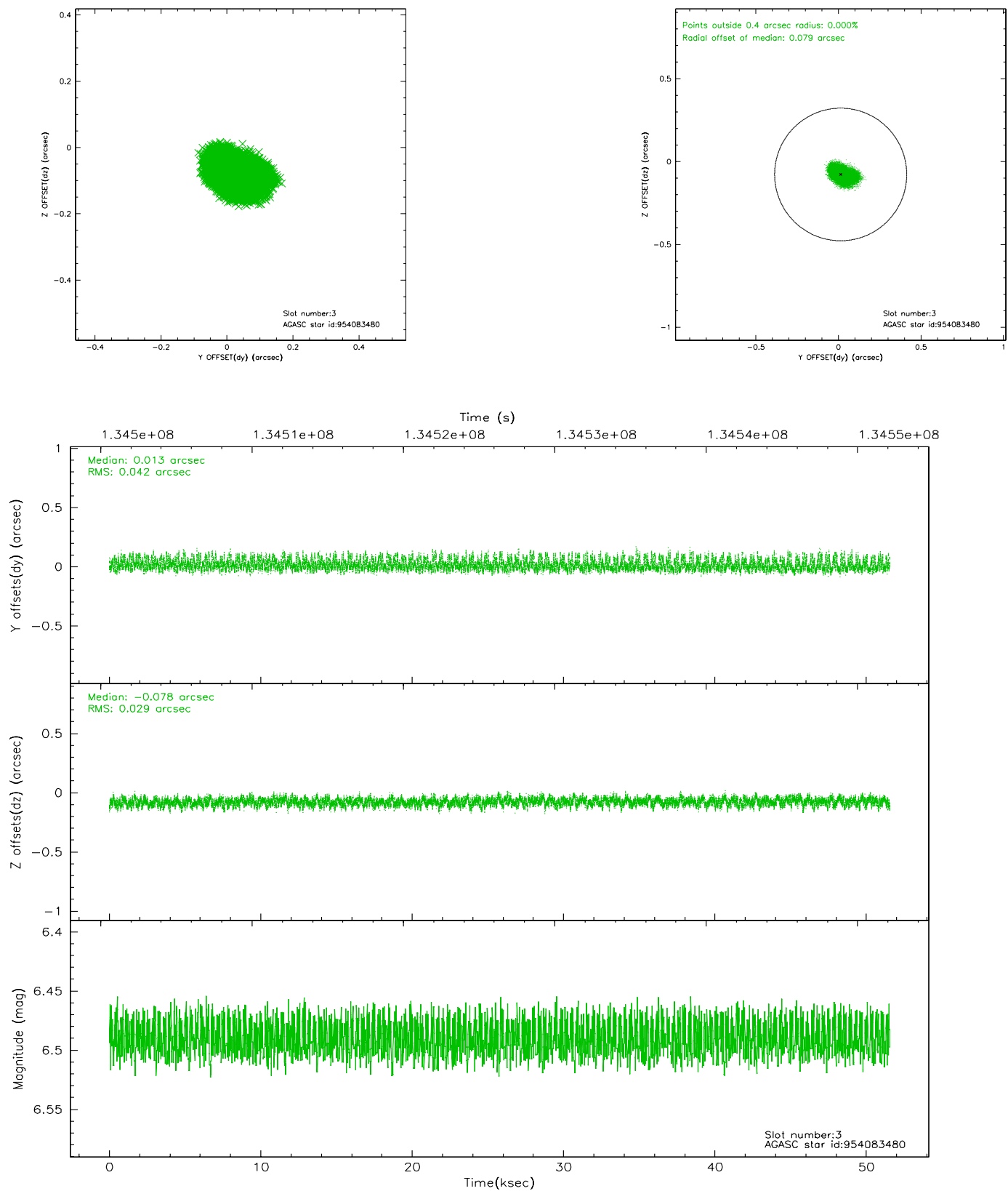


Slot Statistics

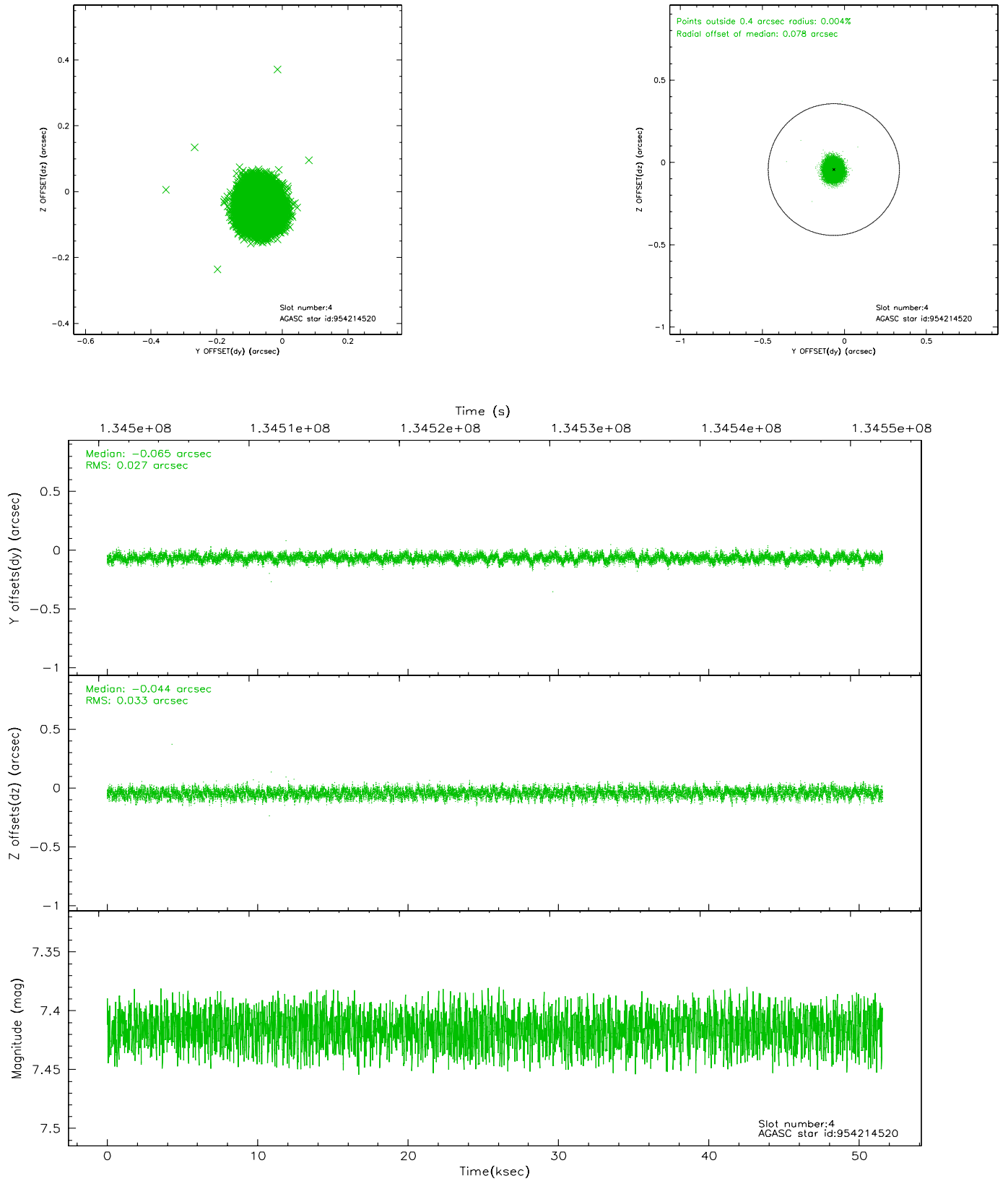
slot	status	id	mag	n_pts	med_dy	med_dz	dr1	dr2	ra	dec	mean_y	mean_z
0	FID	ACIS-S-2	7.10	12575	-0.055	-0.057	0.007	0.012	0.000000	0.000000	-754.29	-1891.58
1	FID	ACIS-S-4	7.18	12574	0.037	0.042	0.006	0.010	0.000000	0.000000	2159.09	16.99
2	FID	ACIS-S-5	7.23	12575	-0.013	0.023	0.007	0.011	0.000000	0.000000	-1807.12	10.63
3	GUIDE	954083480	6.49	25148	0.013	-0.078	0.054	0.089	208.935146	-31.284973	-1152.12	1232.65
4	GUIDE	954214520	7.41	25147	-0.065	-0.044	0.046	0.074	209.480069	-30.964679	880.18	1370.07
5	GUIDE	954211536	8.36	25144	0.032	0.075	0.063	0.099	209.844267	-31.743870	403.58	-1612.20
6	GUIDE	954606536	9.04	25145	0.027	0.119	0.081	0.131	209.229208	-32.217760	-2083.04	-2117.04
7	GUIDE	954213712	9.05	25137	-0.011	-0.065	0.083	0.130	209.361082	-30.922603	641.85	1687.81

2.4 Star Slots

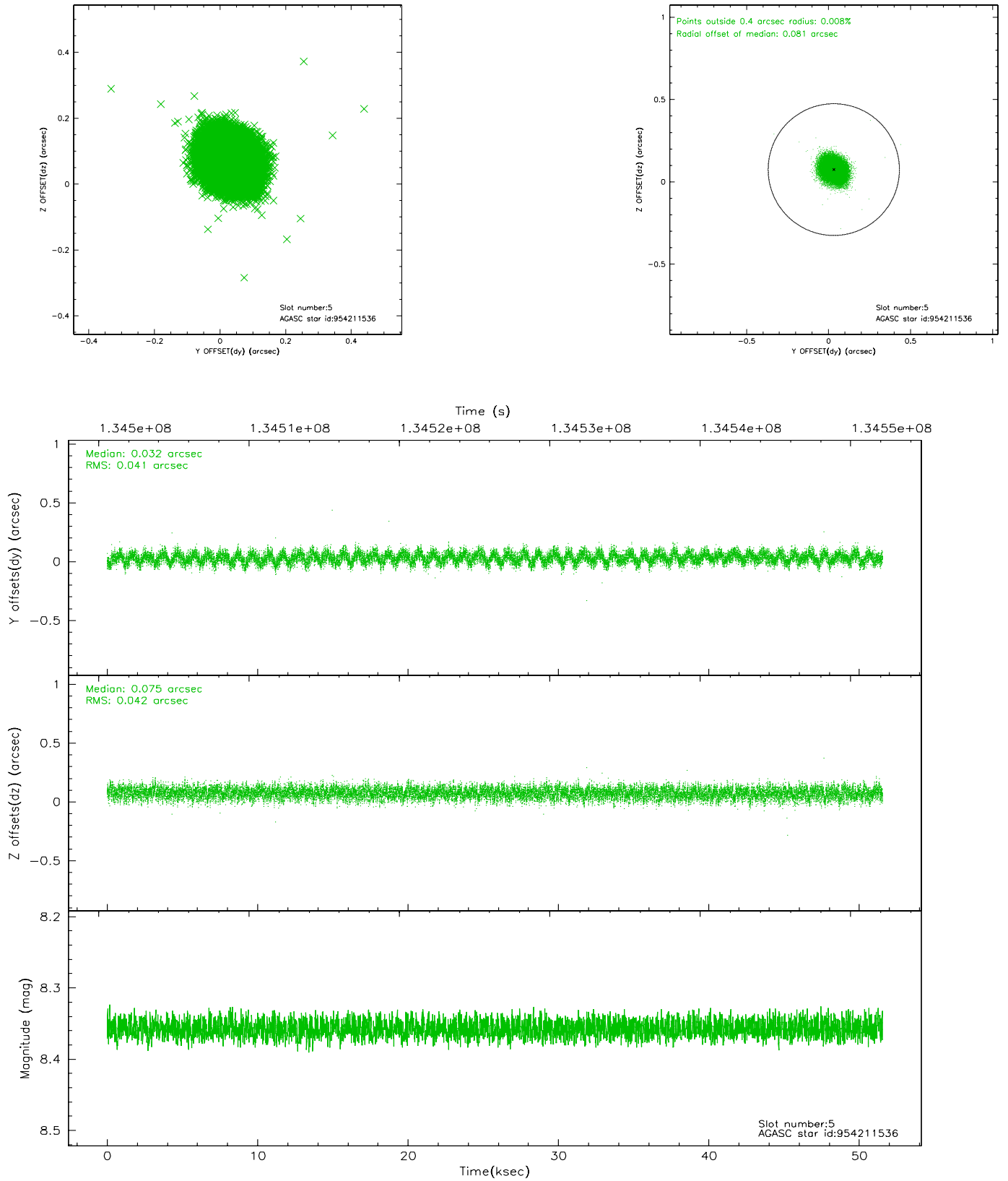
2.4.1 Slot 3



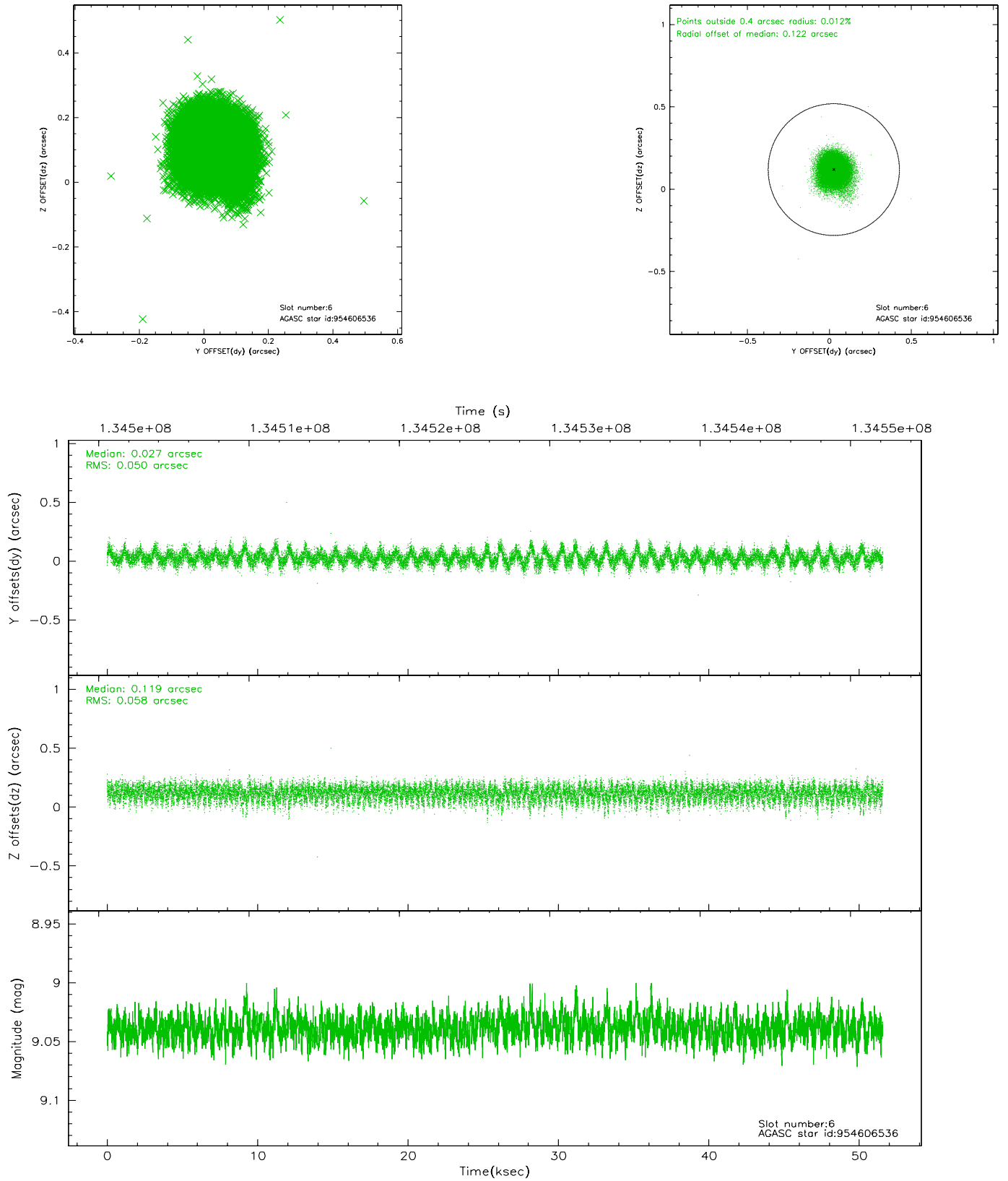
2.4.2 Slot 4



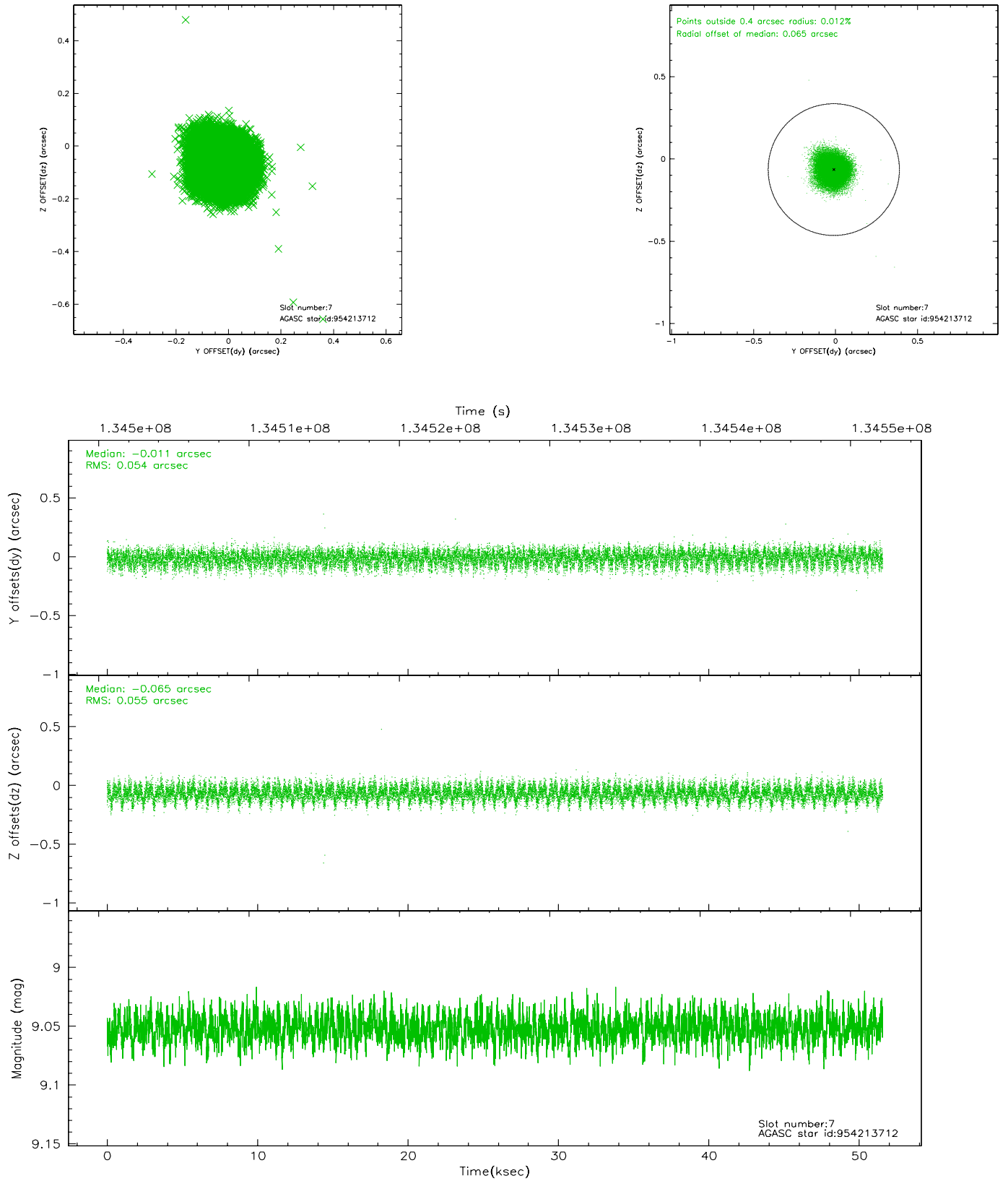
2.4.3 Slot 5



2.4.4 Slot 6

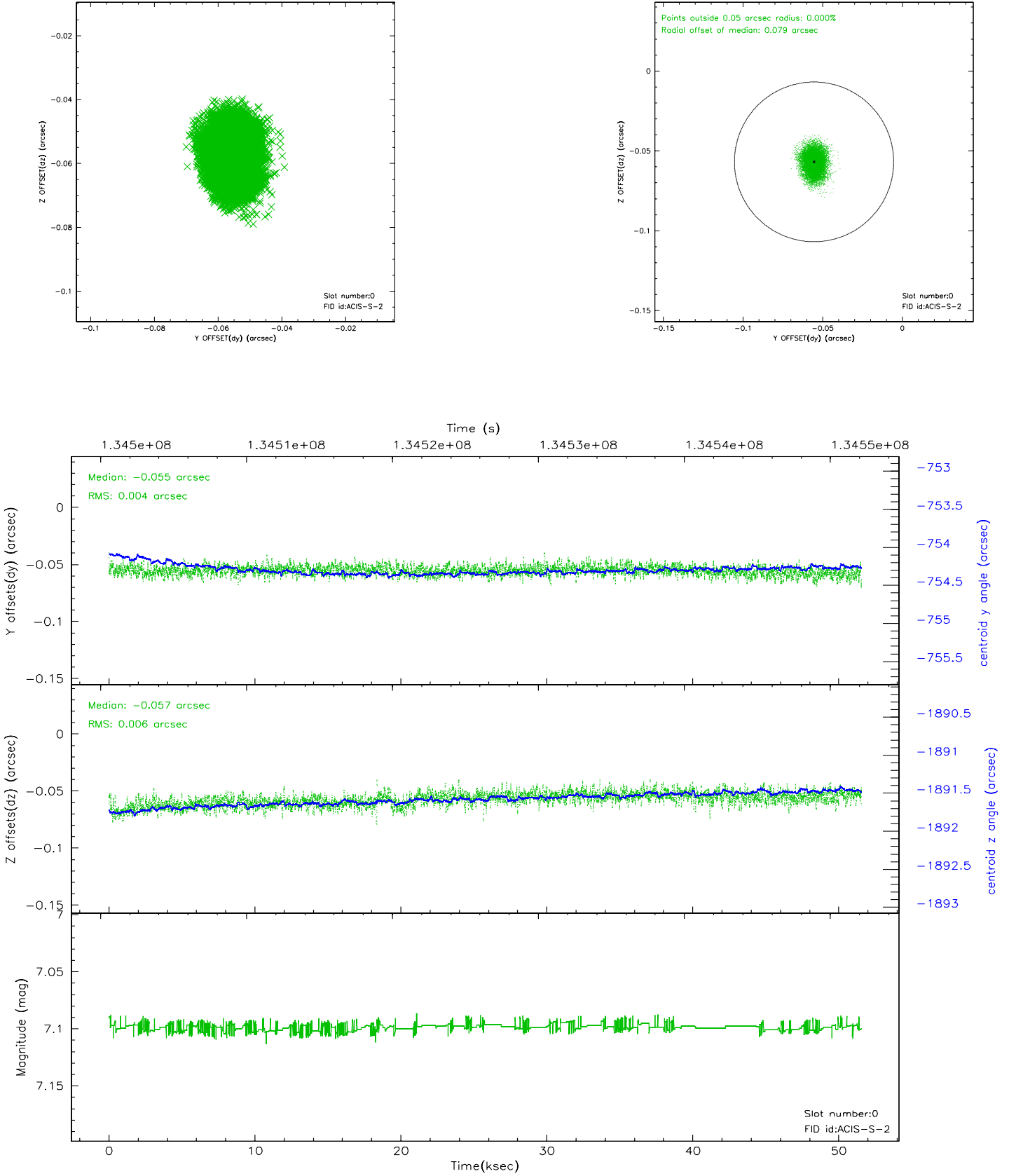


2.4.5 Slot 7

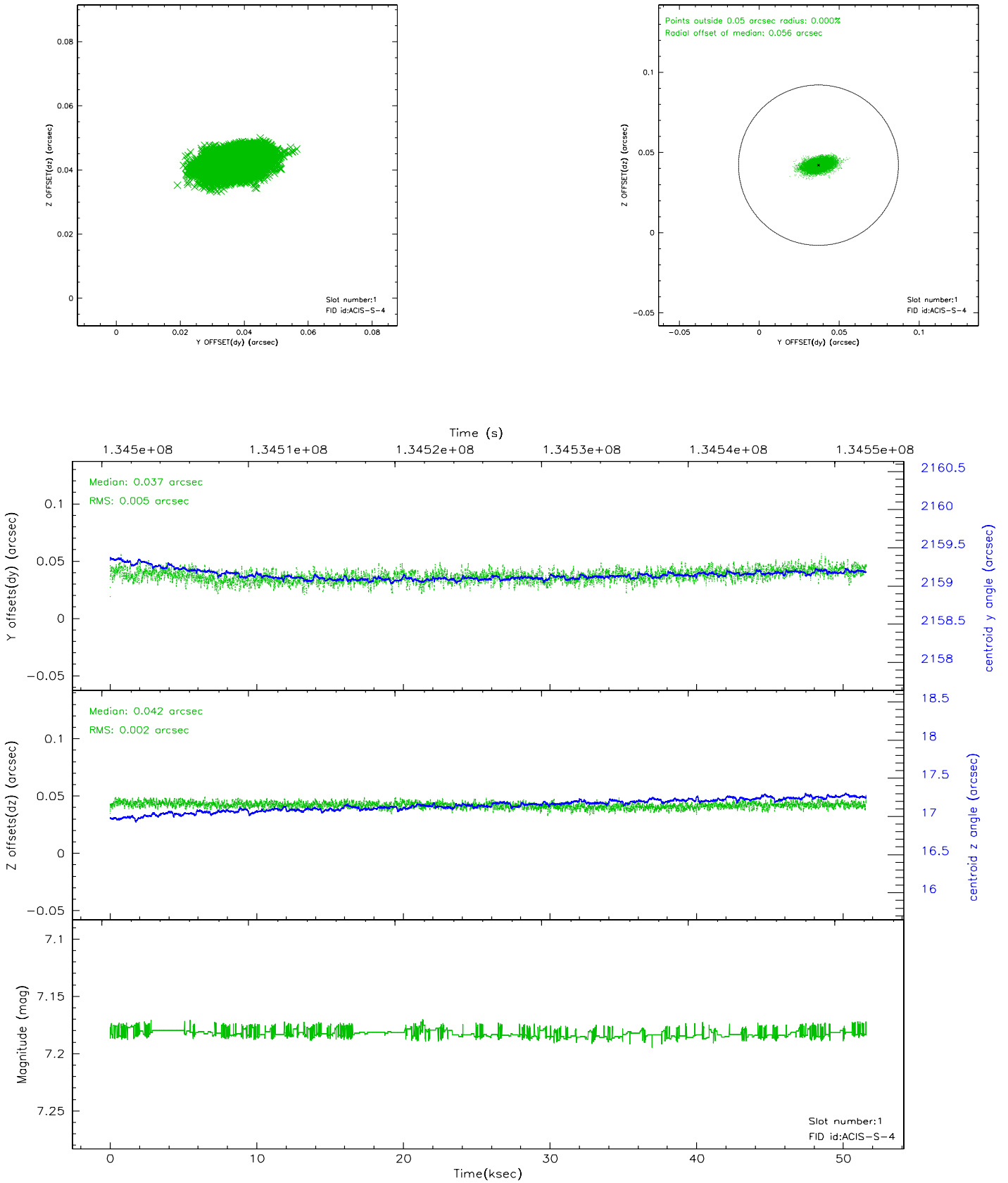


2.5 FID Slots

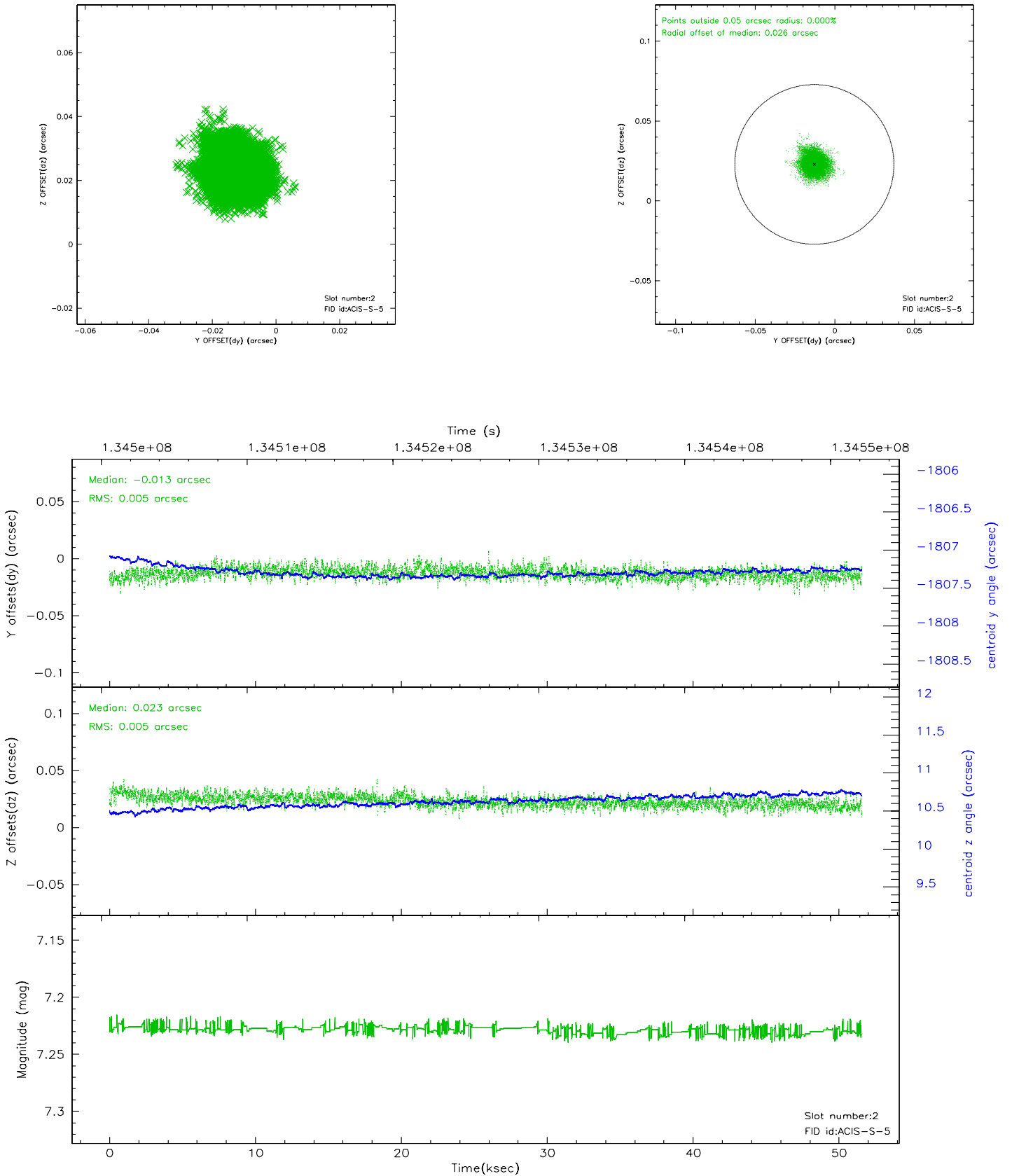
2.5.1 Slot 0



2.5.2 Slot 1



2.5.3 Slot 2

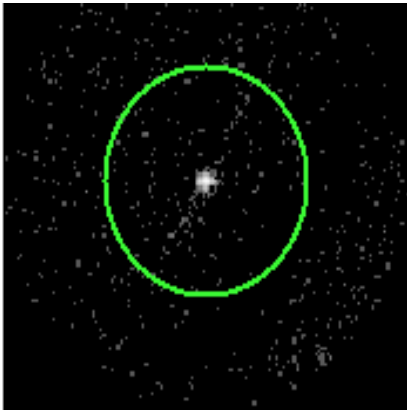


3 Gratings

3.1 LETG Arm



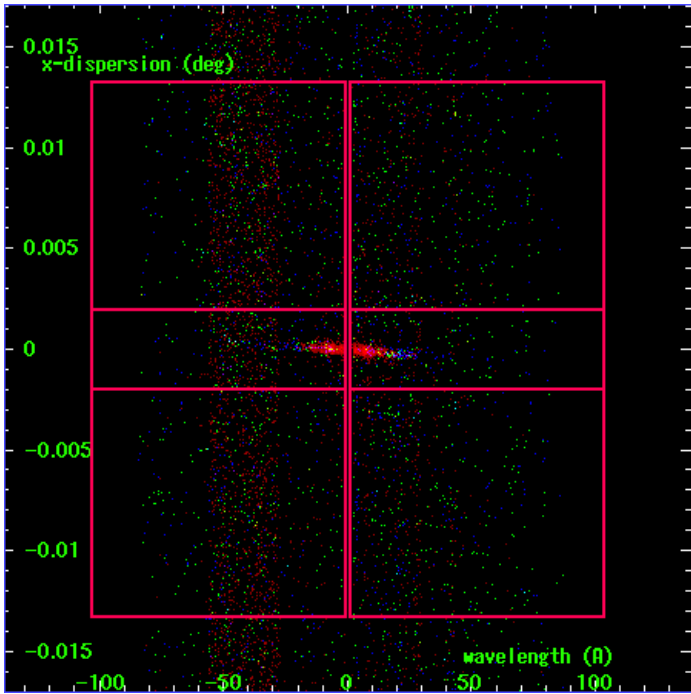
LETG Order Sort 123



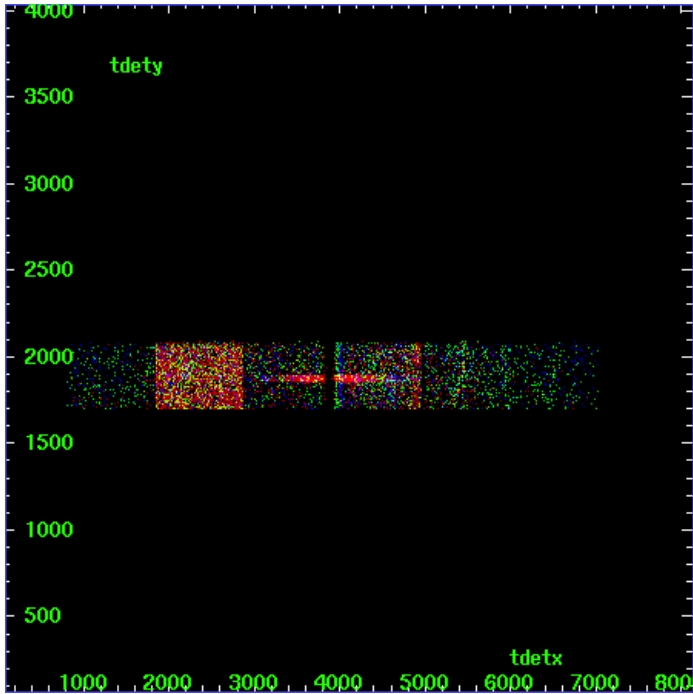
LETG Zero Order



LETG Order Sort ALL

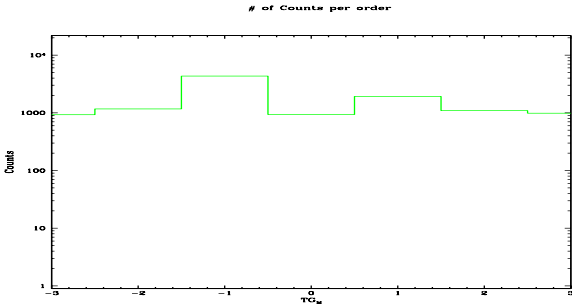


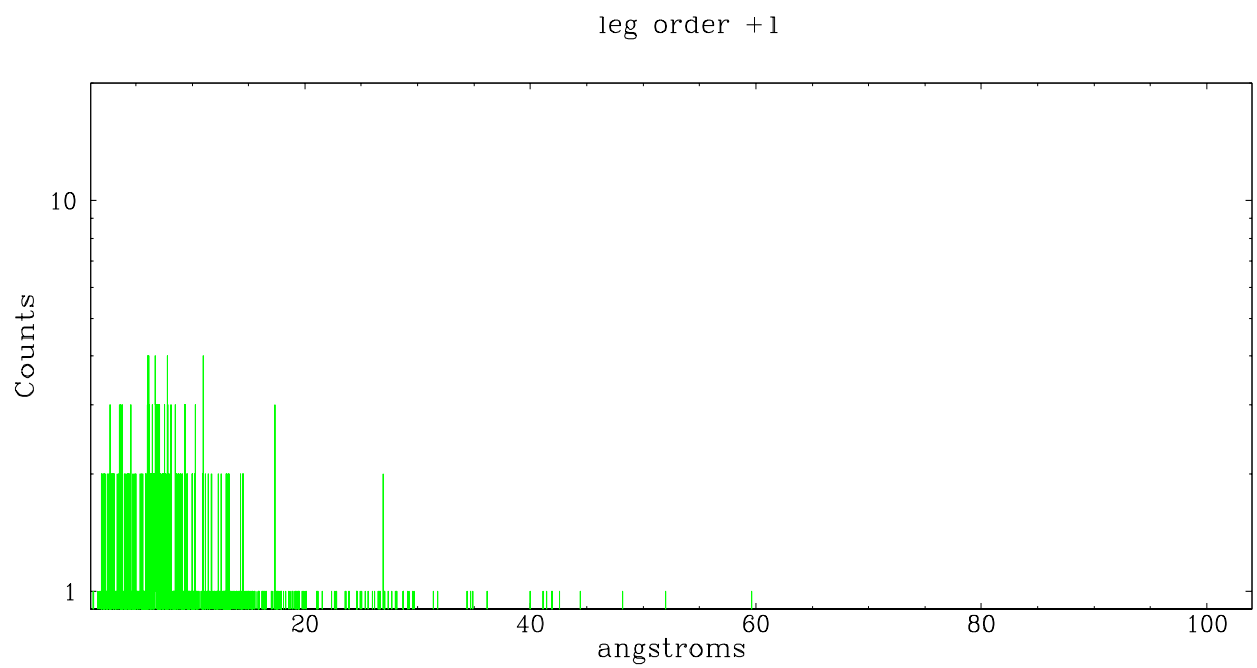
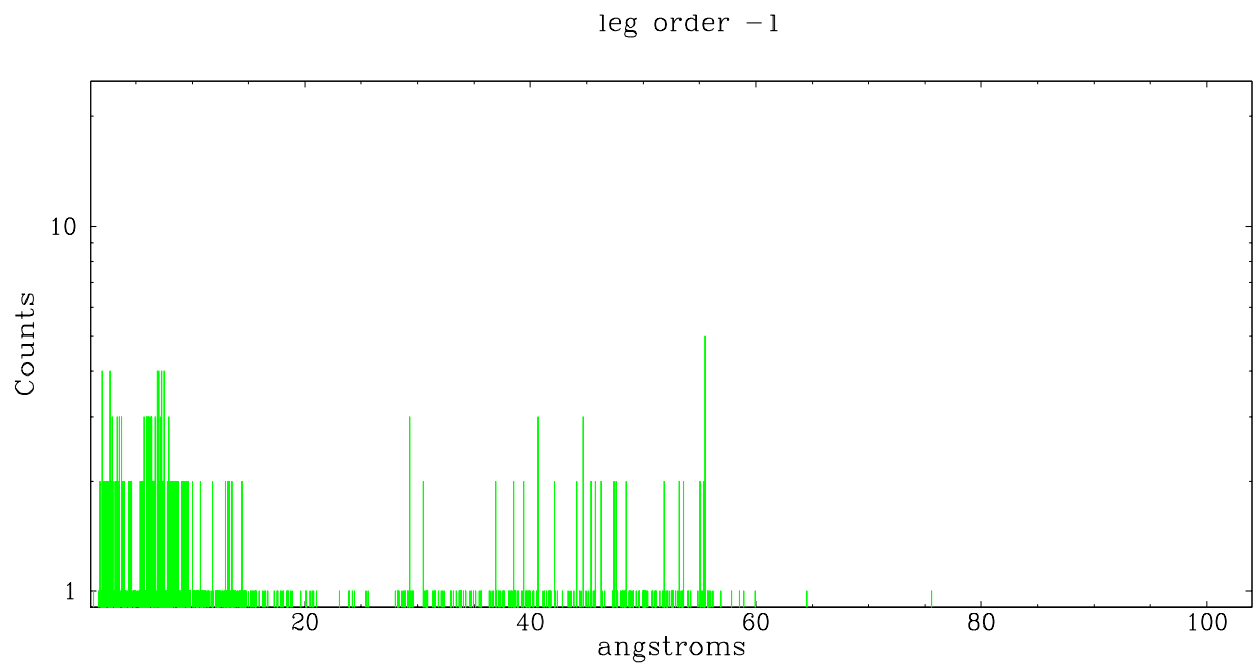
Spot Image LETG



Full Detector LETG

	order -3	order -2	order -1	order 0	order 1	order 2	order 3
Events	925	1169	4347	932	1919	1097	983





A Summary

A.1 Status

V&V Scientist	Jen Lauer
V&V Date (YYYY-MM-DD)	2006.09.10
V&V Edition	1
V&V Disposition and Status	OK
V&V Charge Time	51.206

A.2 Comments